

ADDITIONAL REFERENCES ON DECOMMISSIONING LESSONS LEARNED

TITLE	AUTHOR(S)	ABSTRACT/SUMMARY	PUB. YEAR	AVAILABILITY
NUREG/CR-3587 Identification and Evaluation of Facilitation Techniques for Decommissioning Light Water Power Reactors	LaGuardia, T.S., and Risley, J.F. for the U.S. Nuclear Regulatory Commission	This report provides practical recommendations to facilitate decommissioning operations while considering the implementation effects on plant design, operations, present technology, safety and costs in all phases of power plant life.	1986	To request copies of this report, please visit: http://www.nrc.gov/reading-rm/copies-docs.html
TR-106148 Shoreham Decommissioning: Project Summary And Lessons Learned	Electric Power Research Institute	This report is a summary of utility experience in decommissioning the Shoreham BWR. This report includes experience gained and lessons learned in adapting to the evolving site release criteria.	1996	Topical Report available through http://www.epri.com
TR-107916 Trojan PWR Decommissioning: Large Component Removal Project	Electric Power Research Institute	This report describes the removal and disposal of the steam generators and pressurizer from the Trojan nuclear power plant, carried out in 1996 as the first phase of Trojan decommissioning.	1997	Topical Report available through http://www.epri.com
TR-109030 Fort St. Vrain Public Relations and Human Resources Issues	Electric Power Research Institute	This report details the personnel retention program, the actions taken to mitigate harassment and intimidation issues, and the communications	1998	Topical Report available through http://www.epri.com

		plan in the successful decommissioning of Fort St. Vrain.		
TR-107917-V2 Yankee Rowe Decommissioning Experience Record	Electric Power Research Institute	This report describes the decommissioning of Yankee Rowe. It updates Volume 1 and completes the majority of the experience record, covering all those items that do not have outstanding actions.	1998	Topical Report available through http://www.epri.com
TR-109032 Guide to Regulatory Process for Decommissioning Power Plants	Electric Power Research Institute	This report provides a summary of ongoing Federal agency activities and the regulatory requirements that are applicable, or no longer applicable, to nuclear plants.	1998	Topical Report available through http://www.epri.com
TR-107979 Fort St. Vrain Final Site Survey Experience Report	Electric Power Research Institute	This report describes the final step in the process of decommissioning the Fort St. Vrain nuclear power plant. It formed the legal basis for the termination of the nuclear license, which occurred in 1997.	1998	Topical Report available through http://www.epri.com
TR-109031 Trojan Decommissioning: Site Characterization for Fuel Storage Facility	Electric Power Research Institute	This report describes the final survey plan and presents the results of the final survey for the area where the Independent Spent Fuel Storage Installation (ISFSI) will be constructed at Trojan nuclear power plant.	1998	Topical Report available through http://www.epri.com
TR-109035 A Mobile High	Electric Power Research Institute	Surveying nuclear power plant sites for radioactive contamination is an expensive	1998	Topical Report available through http://www.epri.com

Resolution Gamma Ray Spectrometry System for Radiological Surveys		part of the overall decommissioning process. This report details a mobile radiological survey system designed to produce a rapid and cost-effective radiological characterization of outdoor land areas.		
TR-109036 Review of Experience with the EPRI DFD Process	Electric Power Research Institute	This report describes the experiences with the EPRI DFD decontamination system on plant components and reactor coolant systems, including applications at Big Rock Point, Maine Yankee, and Trojan.	1998	Topical Report available through http://www.epri.com
TR-110006 Proceedings: First EPRI/NEI Decommissioning Workshop	Electric Power Research Institute	This workshop, held in San Antonio in December 1997, provided a forum for utility representatives and selected vendors to exchange information related to decommissioning.	1998	Topical Report available through http://www.epri.com
BHI-01222, Rev. 2 Innovative Work Practices and Lessons Learned at the N Area Deactivation Project.	Day, R.S.	This report identifies many of the lessons learned, innovations, and effective work practices that derived from activities supporting the N Area Deactivation Project at the U.S. Department of Energy's Hanford Site.	1999	For further information on this report, please visit: http://www.bhi-erc.com/library/sgml/BHI/01222rv2.htm

Decommissioning Successes at Rocky Flats Environmental Technology Site.	Crawford, A.C., Hughes, F.P, Trice, K.D. , Wolf, H.C., Wheeler, M.	This paper discusses some of the successes and challenges during the decommissioning and decontamination of Building 779, a cluster of 13 buildings located at the Rocky Flats Environmental Technology Site.	1999	Available through proceedings from the American Nuclear Society Winter Meeting – November 1999
DOE/EM-0425 Pipe inspection using the pipe crawler. Innovative technology summary report	U.S. Department of Energy	This report discusses the technology used during the decommissioning of several buildings at the U.S. DOE's Fernald site, its performance, uses, cost, regulatory and policy issues, and lessons learned.	1999	Report available at the following web link: http://apps.em.doe.gov/OST/pubs/itsrs/itsr1810-may99.pdf
Decommissioning cost recovery in the United States: Lessons learned from Connecticut Yankee Nuclear Power Plant	Joosten, J.	The international audience at the 7 th . International Conference on Nuclear Engineering is already familiar with the roles of the owner and the NRC in ensuring the technical and safety performance goals of nuclear plant decommissioning. This paper addresses the role of the economic regulator since the pursuit of technical and safety goals must necessarily carry with them -a price tag- and owners must be concerned with the recovery of those costs. The Connecticut Yankee case thus provides valuable insights	1999	Available through proceedings of the 7 th . International Conference on Nuclear Engineering. in Tokyo, Japan – April 1999

		into the role of economic regulation on decommissioning strategy.		
Status of Decommissioning Pilot Program for Materials Licensees	U.S. Nuclear Regulatory Commission		1999	Report available at the following web link: http://www.nrc.gov/reading-rm/doc-collections/commission/secys/1999/secy1999-160/1999-160scy.html
TR-112351 Spent Fuel Pool Cooling and Cleanup System During Decommissioning	Electric Power Research Institute	Operation of original in-plant spent fuel pool facilities is expensive and can interfere with decommissioning. This report describes the approach taken in the Trojan Decommissioning Project to establish independent cooling and cleanup services for the fuel pool until the spent fuel is placed in dry storage.	1999	Topical Report available through http://www.epri.com
TR-112143 A Methodology for Decommissioning Project Management	Electric Power Research Institute	This document provides guidance and utility experience in scheduling and cost control in decommissioning project management, including descriptions of cost control software, based on project management techniques used at Trojan.	1999	Topical Report available through http://www.epri.com

TR-109460 Interim Industry Guidance on Decommissioning Standard Review Plans	Electric Power Research Institute	This document provides interim industry guidance on the preparation of standard review plans for exemptions for key programs not addressed in the NRC Decommissioning Rule, including emergency planning, security plan, technical specifications, operator requalification, and insurance requirements.	1999	Topical Report available through http://www.epri.com
TR-112092 Evaluation of Reactor Coolant System Decontaminations at Maine Yankee and Connecticut Yankee	Electric Power Research Institute	This report is an independent review of the reactor coolant system decontaminations carried out in 1998 at two permanently shutdown PWRs, using the EPRI DFD process and Siemens' CORD.	1999	Topical Report available through http://www.epri.com
TR-112877 Upgrading the EPRI DFD Process	Electric Power Research Institute	This report describes the development of the EPRI DFD Process for new applications, including aluminum and carbon steel systems, and reviews forthcoming applications.	1999	Topical Report available through http://www.epri.com
TR-110234 Decommissioning Waste Reduction Guide	Electric Power Research Institute	This manual describes approaches to reduce the volume and costs of low-level radioactive waste arising from decommissioning activities. The guide spells out the similarities and differences between operating and decommissioned sites, and identifies when specific	1999	Topical Report available through http://www.epri.com

		approaches are more cost-effective.		
TR-111596 Concrete Decontamination Technology Workshop Proceedings	Electric Power Research Institute	A series of technical workshops is being held to evaluate current utility practices, new techniques and requirements for improved technology. The first workshop, on concrete decontamination, was held in Fall 1998. The proceedings provide a useful reference document on the current status of the technology.	1999	Topical Report available through http://www.epri.com
TR-111025 Proceedings: 1998 EPRI/NEI Decommissioning Workshop	Electric Power Research Institute	This workshop held in December 1998 in Monterey, CA provided a forum for utility representatives and selected vendors to exchange information related to decommissioning of nuclear power plants.	1999	Topical Report available through http://www.epri.com
TR-111277 Embedded Pipe, Tank and Fuel Pool Cleaning/Remediation Technology	Electric Power Research Institute	A workshop on methods of dealing with radioactive pipes embedded in concrete, tank cleaning and fuel pool cleaning was held in February 1999. The proceedings provide a reference document on the current status of the technology.	1999	Topical Report available through http://www.epri.com
WM-112876 Site Characterization and Final Site Survey	Electric Power Research Institute	A workshop on-site characterization techniques and final site surveys held in May, 1999. The proceedings provide	1999	Topical Report available through http://www.epri.com

Workshop Proceedings		a useful reference document on the current status of the technology.		
WM-114506 Decommissioning Technology Innovations	Electric Power Research Institute	A compilation of presentations on innovative technologies presented at the NEI/EPRI Decommissioning Planning and Technology Forum in October 1999.	1999	Topical Report available through http://www.epri.com
WM-112875 Remediation Technology: Hazardous Waste Workshop Proceedings	Electric Power Research Institute	Proceedings of a workshop held in August 1999 on the detection, removal and disposal of asbestos, PCBs, lead and mercury from nuclear plants.	1999	Topical Report available through http://www.epri.com
Existing facilities and past practices: Lessons Learned	Huizenga, D., Tonkay, D. (U.S. DOE), Owens, K.	This paper discusses the experience of the U.S. DOE in terms of the lessons learned from operating radioactive waste management facilities and from undertaking intervention or remedial action, and from decision making in an international context. Overarching safety principles are discussed, including integrating safety into all work practices and minimizing the generation of waste.	2000	For further information on this report, please visit the following web link: http://www-pub.iaea.org/MTCD/publications/PubDetails.asp?pubId=6045

Streamlined Licensing Process	U.S. Nuclear Regulatory Commission	This letter discusses some of the changes in the procedures of the Fuel Cycle Licensing Branch to improve the review process for licensing actions.	2000	Available via NRC's ADAMS system- Accession Number ML003748095
TR-1000908 Remediation of Embedded Piping	Electric Power Research Institute	This report discusses some methods for dealing with embedded pipe, including removal and in-situ decontamination will be documented, based on experiences and lessons learned at Trojan plant.	2000	Topical Report available through http://www.epri.com
TR-1000093 Decommissioning Planning - Oyster Creek Experience	Electric Power Research Institute	This report chronicles the process of preparing GPU Nuclear's Oyster Creek Nuclear Generating Station for early retirement. This summary of the Oyster Creek experience has great relevance to the nuclear industry, as future decommissioning projects will benefit from the comprehensive pre-planning work performed there.	2000	Topical Report available through http://www.epri.com
TR-1000892 Decommissioning Regulatory Process	Electric Power Research Institute	This report documents U.S. industry input to NRC on the continuing rulemaking process, covering interactions in 2000.	2000	Topical Report available through http://www.epri.com

TR-1000951 Embedded Pipe Dose Calculation Method	Electric Power Research Institute	This report evaluates measurement techniques for determining activities on internal surfaces of embedded pipes, and scaling factors for all nuclide concentrations.	2000	Topical Report available through http://www.epri.com
TR-1000884 Technology Demonstration Experience Reports	Electric Power Research Institute	This document reports on field demonstrations of concrete decontamination technologies, large bore pipe decontamination using grit blasting, GammaCam gamma ray imaging system and large tank and vessel dismantlement.	2000	Topical Report available through http://www.epri.com
TR-1000006 Decommissioning Waste Management Workshop Proceedings	Electric Power Research Institute	A workshop on the management and disposal of low-level radioactive waste at decommissioned plants was held. This workshop addressed all aspects of waste processing. The proceedings are designed to provide a useful reference document on utility experiences.	2000	Topical Report available through http://www.epri.com
TR-1000648 Decontamination, ALARA, Worker Safety Workshop Proceedings	Electric Power Research Institute	A workshop on ALARA and worker safety. This includes all aspects of controlling radiation doses during the decommissioning process, including the benefits of chemical and mechanical decontamination.	2000	Topical Report available through http://www.epri.com

TR-1001238 Plant Engineering Management Workshop Proceedings	Electric Power Research Institute	A workshop on plant reconfiguration management (drawing control, technical specification changes, reclassification of systems) and the transition from operating plant procedures to decommissioning procedures was held at Millstone in October 2000.	2000	Topical Report available through http://www.epri.com
TR-1003029 Decommissioning: Reactor Pressure Vessel Internals Segmentation	Electric Power Research Institute	This report documents the results obtained to date at Connecticut Yankee, Maine Yankee, San Onofre, Big Rock Point and facilities abroad and discusses the lessons learned at each site. Recommendations for improving efficiency and reducing personnel exposure levels at future decommissioning sites are provided.	2001	Topical Report available through http://www.epri.com
TR-1003025 Decommissioning Pre-Planning Manual	Electric Power Research Institute	This manual provides guidance on preplanning for decommissioning, with the objective of reducing delays, particularly for unplanned, premature plant closures. The interim report, published in 2000, was updated with 50 task topics addressed in the final report.	2001	Topical Report available through http://www.epri.com

TR-1003030 Determining Background Radiation Levels in Support of Decommissioning Nuclear Facilities	Electric Power Research Institute	This report provides recommendations for establishing background radiation levels for soils, surfaces and structures.	2001	Topical Report available through http://www.epri.com
TR-1003126 Program Considerations for Addressing Alpha- emitting Radionuclides at Nuclear Power Plants	Electric Power Research Institute	This report provides practical information on establishing effective alpha control programs for decommissioning activities.	2001	Topical Report available through http://www.epri.com
TR-1003026 Decontamination of Reactor Systems and Contaminated Components for Disposal or Refurbishment	Electric Power Research Institute	This report documents activities in U.S. and elsewhere to decontaminate components from nuclear facilities for recycling, reuse or disposal. This includes pumps, steam generators, and contaminated equipment from other nuclear activities.	2001	Topical Report available through http://www.epri.com
TR-1003027 Interim Storage of Greater than Class C Low Level Waste	Electric Power Research Institute	Describes utility experiences for addressing Greater Than Class C (GTCC) wastes, including lessons learned and challenges dealt with in the storage of GTCC waste.	2001	Topical Report available through http://www.epri.com

Cost Estimating for Decommissioning of a Plutonium Facility- Lessons Learned From The Rocky Flats Building 771 Project	Stevens, J.L., Titus, R., Sanford, P.C.	This paper provides a brief overview of the replanning process during decommissioning activities at Rocky Flats, a detailed reexamination of the life-cycle decommissioning effort for the site and for the major individual facilities, and provides lessons learned on cost tracking in the decommissioning environment.	2002	Available through proceedings from the Waste Management Conference – February 2002
Phased Decommissioning- From Concept to Reality	Conant, J., Woodard, R., Lively, J.	This presentation discusses some examples of lessons learned by fuel cycle facilities. Some of the topics include the benefits of preparatory decommissioning work performed under license authorization, as well as early investigation and consideration of all environmental and wildlife issues early in the decommissioning project.	2002	Available through proceedings from Decommissioning and Decontamination Conference in Captiva Island, FL
Decommissioning Challenges at the Rocky Flats Environmental Technology Site	Dorr, K.A., Hoover, J.	This paper presents a discussion of the demolition of the Building 788 cluster at the Rocky Flats Environmental Technology Site in Golden, Colorado. Topics covered include the methods employed for Project Planning, Regulatory Compliance, Waste Management, Hazard	2002	Available through proceedings from the Waste Management Conference – February 2002

		Identification, Radiological Controls, Risk Management, Field Implementation and Cost Schedule Control, Lessons Learned and Project Closeout.		
TR-1003424 Technology Site Cooling and Cleanup System Experience at Decommissioned Plants	Electric Power Research Institute	This report summarizes design and operating experience of decommissioning-specific spent fuel pool cooling and cleanup systems.	2002	Topical Report available through http://www.epri.com
TR-1003425 Development of the DFDX Process	Electric Power Research Institute	A new version of the DFD decontamination for decommissioning process will be demonstrated in laboratory tests. This process, called DFDX, will use electrochemical ion exchange to collect the radioactivity in particulate, metallic form, eliminating the need for disposal of ion exchange resin.	2002	Topical Report available through http://www.epri.com
TR-1002763 LLW On-Site Storage Guidelines	Electric Power Research Institute	The EPRI guidelines on the storage of low level waste at nuclear facilities will be updated, starting in 2002. Topics will be published as completed. 2002 Report: Interim On-Site Storage of Low and Intermediate Level Wastes: Guidelines for Extended Storage.	2002	Topical Report available through http://www.epri.com

TR-1003430 Transportation Rule Technical Support	Electric Power Research Institute	This report provides a generic reactor calculation technique for an activity equivalence to 1R/hr @ 3M on transportation containers containing LLW. The results of this work will be carried forth by NEI/EPRI to the NRC and IAEA for regulatory approval. Passing of this ruling based upon this technical support would provide significant transportation cost savings to the utilities.	2002	Topical Report available through http://www.epri.com
TR-1007312 Proceedings from EPRI International Low Level Waste Conference	Electric Power Research Institute	This conference, held in June 2002, covered all aspects of radioactive waste management and disposal. It included a session on decommissioned plant activities for the first time.	2002	Topical Report available through http://www.epri.com
TR-1003423 Trojan License Termination Plan Development Project	Electric Power Research Institute	This report documents the first LTP to be approved by NRC under current regulations. It documents challenges encountered during preparation and NRC review, and describes how these challenges were addressed.	2002	Topical Report available through http://www.epri.com
TR-1003196 Guideline for Preparing the Radiological Aspects	Electric Power Research Institute	An umbrella guideline document, which will be a roadmap of the nuclear plant license termination process, will provide general guidance	2002	Topical Report available through http://www.epri.com

of a License Termination Plan		related to initial characterization, dose modeling, site remediation and the final site survey.		
TR-1006949 Use of Probabilistic Methods in Nuclear Power Plant Decommissioning Dose Analysis	Electric Power Research Institute	This report provides guidance on the use of probabilistic RESRAD 6.0 code for nuclear power plant decommissioning dose analysis. Only the surface soil contamination is addressed in this report. An example of site-specific analysis using the probabilistic approach is also presented.	2002	Topical Report available through http://www.epri.com
TR-1003426 Summary of Utility License Termination Documents and Lessons Learned	Electric Power Research Institute	This report provides an overview of the regulatory requirements for the development and submittal of a nuclear power reactor License Termination Plan (LTP). It summarizes results and lessons learned from the LTPs submitted to the U.S. NRC from Connecticut Yankee, Maine Yankee, Saxton, Trojan and Yankee Rowe.	2002	Topical Report available through http://www.epri.com
TR-112871 Site Characterization Workshop	Electric Power Research Institute	The proceedings of the second EPRI workshop on site characterization, hosted by Big Rock Point plant in October 2001, will be published.	2002	Topical Report available through http://www.epri.com
TR-1003720 Potential Applications	Electric Power Research Institute	This report will describe potential applications of the DFDX process, including a	2003	Topical Report available through http://www.epri.com

of the DFDX Process		feasibility and economic study of its use on retired components, including steam generators.		
TR-1003428 High Shear Filtration Demonstration	Electric Power Research Institute	Pilot testing of a new membrane filtration technology on various decommissioning waste streams at Rancho Seco will be reported.	2003	Topical Report available through http://www.epri.com
TR-1008018 Enhanced SAFSTOR Characterization Project	Electric Power Research Institute	A study on enhanced SAFSTOR (greater than 60 years) will include evaluation of the economic benefits of delaying segmentation to take advantage of radioactive decay.	2003	Topical Report available through http://www.epri.com
LLW On-site Storage Guidelines TR-1003436 TR-1007862 TR-1007863	Electric Power Research Institute	Key Report: – Advanced Volume Reduction & Waste Segregation Strategies for LLW Disposal Minor Updates of Series:- Interim On-Site Storage of GTCC Waste Interim On-Site Storage: V4, P1, Waste Containers for Extended Storage	2003	These topical reports are available through http://www.epri.com
1007651 Proceedings: EPRI International Decommissioning and	Electric Power Research Institute	This report presents the proceedings of an EPRI international workshop on decommissioning and radioactive waste management.	2003	Topical Report available through http://www.epri.com

Radioactive Waste Workshop at Dounreay		EPRI initiated this continuing workshop series to aid utility personnel in assessing the technologies utilized in the decommissioning of nuclear power plants and facilities. The information presented will help individual utilities assess the benefits of the various programs, including their potential to reduce decommissioning costs.		
1008924 2003 NEI/EPRI Decommissioning Forum	Electric Power Research Institute	The NEI/EPRI Decommissioning Forum provides a comprehensive overview of the challenges facing the industry in the completion of the nuclear power plant life cycle. This report presents the proceedings of the NEI/EPRI 2003 Decommissioning Forum, which focused on license termination, material clearance values, funding and final site release requirements.	2003	Topical Report available through http://www.epri.com
Briefing to the Commissioners of the U.S. Nuclear Regulatory Commission	Culberson, D.	This presentation discusses some of the accomplishments of the Fuel Cycle Facilities Forum, as well as issues of importance to fuel cycle facilities.	2004	http://www.nrc.gov/reading-rm/doc-collections/commission/slides/2004/20041013/culberson_files/frame.html

Radiological Impact on Chemical Waste Remediation	Woodard, R.C., Conant, J.		2004	Available through proceedings from the Waste Management Conference – February 2004
TR-1009410 Capturing Historical Knowledge for Decommissioning of Nuclear Power Plants	Electric Power Research Institute	Summary of Historical Site Assessments at Eight Decommissioning Plants. This report describes approaches utilized and experience gained in the development of early characterization activities by a number of nuclear power plants undergoing decommissioning. In particular, the report provides experience and lessons of performing the Historical Site Assessment or HSA.	2004	Topical Report available through http://www.epri.com
TR-1009571 Application of Non-Nuclear Robotics to Nuclear Industry Decommissioning`	Electric Power Research Institute	Segmentation of radioactive components, including reactor cavity internals, has proved to be a challenging job for the nuclear power industry during decommissioning. The innovative use of robotic technology to perform debris cleanup can help utilities maximize worker safety. This report documents a first of its kind robotics experience at Connecticut Yankee.	2004	Topical Report available through http://www.epri.com

TR-1009572 Demonstration of the DFDX Process	Electric Power Research Institute	The DFDX process will be demonstrated on retired components at a nuclear site, starting during 2003. A pilot-scale equipment skid is being field tested on a number of different components at Studsvik, Sweden and UKAEA Dounreay.	2004	Topical Report available through http://www.epri.com
Trials and Tribulations of Decommissioning a Large Thorium Lantern Mantle Production Facility	Conley, T. A.	This presentation discusses some of the challenges that the State of Kansas faced during a major decommissioning project.	2004	http://www.crcpd.org/AnnualMeeting-04/05-26-04_1040-Conley.pdf
TR-1009411 Decommissioning License Termination Plans	Electric Power Research Institute	Update on 2002 Utility Guideline on License Termination Issues, Dose Modeling, Characterization and Final Site Survey documents, covering license termination plans approved in 2003 and other open issues.	2004	Topical Report available through http://www.epri.com
1009409 Proceedings: Decommissioning — License Termination Plans and Final Site Release Workshop	Electric Power Research Institute	This report presents the proceedings of an EPRI workshop dealing with the subject of decommissioning license termination and final site release. The workshop was the ninth in a series designed to aid utility personnel in assessing technologies for decommissioning nuclear	2004	Topical Report available through http://www.epri.com

		power plants. It focused on specific aspects of license termination activities and final site release as they relate to nuclear plant decommissioning. The information presented will help utilities control decommissioning costs by selecting the best practices and technologies.		
1009830 Second EPRI International Decommissioning Workshop at Bristol	Electric Power Research Institute	This report presents the proceedings of an international EPRI workshop on decommissioning and radioactive waste management. The workshop focused on a wide range of decommissioning topics, including general approaches, technical developments and project experiences. The information presented will assist individual utilities in their decommissioning projects, and has the potential to reduce decommissioning costs.	2004	Topical Report available through http://www.epri.com
Nevada Test Site Decontamination and Decommissioning Program History, Regulatory Framework, and Lessons Learned	Kruzic, Michael, Morris, Patrick	Decontamination and Decommissioning (D&D) of radiologically and/or chemically contaminated facilities at the Nevada Test Site (NTS) are the responsibility of the Environmental Restoration	2005	Available through proceedings from the American Nuclear Society Annual Meeting – August 2005

		(ER) Project. Facilities identified for D&D are listed in the Federal Facilities Agreement and Consent Order (FFACO) and closed under the Resource Conservation and Recovery Act process. This paper discusses the NTS D&D program, including facilities history, D&D regulatory framework, and valuable lessons learned.		
Practical Solutions to Difficult Decommissioning Issues-Lessons Learned	U.S. NRC	<p>This paper discusses seven of the innovative approaches used by both licensees and the NRC staff to resolve difficult decommissioning issues, such that they may be used by other licensees and staff in the future.</p> <p>Based on these and other experiences, the NRC has identified a number of generic lessons learned from the NRC perspective, four of which will be discussed in the paper.</p>	2005	Available via NRC's ADAMS system- Accession Number ML051510046
Decommissioning Lessons Learned for NRC – Licensed Materials Site	Lux, J., Conant, J.		2005	Available through proceedings from the American Nuclear Society Winter Meeting – November 2005
Decommissioning Lessons Learned	Lux, J.	This presentation discusses some lessons learned from practical experiences during the decommissioning of two Kerr McGee Corporation sites.	2005	<p>Information on this presentation can be found at:</p> <p>http://www.nrc.gov/reading-rm/doc-collections/commission/slides/2005/20051018/</p>

				<p>lux_files/frame.html</p> <p>http://www.nrc.gov/reading-rm/doc-collections/commission/slides/2005/20051018/lux-additional-material.pdf</p>
<p>TR-1011734</p> <p>Maine Yankee Decommissioning – Experience Report</p>	<p>Electric Power Research institute</p>	<p>One of the key objectives of the EPRI Decommissioning Technology Program is to capture the experience and lessons learned from the plants currently in decommissioning. This report provides detailed information on the decommissioning of the Maine Yankee Nuclear Plant that will be of value to future US and internationally decommissioning projects. The report covers the following areas:</p> <ul style="list-style-type: none"> • Pre-shutdown actions and analyses • Transition activities from operations to decommissioning • Use of Decommissioning Operations Contractors • Fuel Storage Options • Regulatory and Stakeholder interaction • Specific Technologies (Segmentation and 	<p>2005</p>	<p>Topical Report available through http://www.epri.com</p>

		Explosive Demolition) • Site closure issues		
TR-1011733 Decommissioning: San Onofre Unit 1 Reactor Vessel Internals Segmentation		This report details Southern California Edison program to capture the experience of earlier projects. Additionally, it covers the major planning and testing initiatives undertaken to correct difficulties experienced in the earlier projects. These measures resulted in a highly successful Segmentation Project.		Topical Report available through http://www.epri.com
Interim Report 1009905 Technical Development of new LLW Disposal Options: Phase I, Industry Strategic LLW Database	Electric Power Research Institute	The Strategic Research Database is a multi-faceted program with the following common objectives: 1) To create/update EPRI's base intelligence on LLW management for all domestic and international members of the Nuclear Business Group; 2) To load as much of this data as possible into RadBench for utility benchmarking purposes; and 3) To identify waste types and quantities which are likely to be applicable to the new clearance rules for RCRA sites. This will be captured as part of surveys for creating the database that is needed to make informed decisions regarding	2005	Topical Report available through http://www.epri.com

		new opportunities for clearance and disposal site development.		
<p>TR-1009920</p> <p>Radioactive Material Control/Clearance Standard Implementation</p>	<p>Electric Power Research Institute</p>	<p>This collaborative work with NEI is providing technical support for this regulatory issue. This project will examine the practicality of the implementation of dose-based clearance rule(s) by investigating site specific practices needed to utilize such rules. Results will be provided to NEI as input to expected future NRC regulatory activities. The project initiative has tasks both underway and planned, including; Analysis of the results from the 2003 NEI/EPRI RAM Control Survey to establish a baseline for industry measurement criteria for material release, A review of U.S. and International documents on clearance standards from ANSI, NUREGs, IAEA, European Union and the UK; Development and testing of a “pilot practices program” for clearance; and publication of industry standard clearance document(s).</p>	<p>2005</p>	<p>Topical Report available through http://www.epri.com</p>

<p>TR-1011730</p> <p>Groundwater Monitoring Guidance for Nuclear Power Plants</p>	<p>Electric Power Research Institute</p>	<p>This guidance is directed to operators of both operating and decommissioning plants and draws from the experience with groundwater monitoring programs conducted at three nuclear power reactor sites. Two of these reactor sites are being decommissioned and the third is an operating site that had identified spent fuel pool leakage into the aquifer.</p>	<p>2005</p>	<p>Topical Report available through http://www.epri.com</p>
<p>TR-1011735</p> <p>A Practical Guide for the Performance of Combined Risk Assessment at Nuclear Power Plant Decommissioning Sites</p>	<p>Electric Power Research Institute</p>	<p>This report will explain the use of radionuclide slope factors as the vehicle needed to normalize contaminant cancer risk by providing specific examples related to the nuclear industry. Lessons learned from current decommissioning sites employing these relatively new methods will be solicited and summarized in the document. The report will explore, the bases and applications of the various toxicity factor tables (Risk-Based Concentration, Reference Doses, Cancer Slope Factors) that are used to compare fixed levels of risk for radiological and non-radiological chemicals/substances. The report will also discuss the</p>	<p>2005</p>	<p>Topical Report available through http://www.epri.com</p>

		summation of both radiological and non radiological comparative risk assessment values for complying with remediation site combined risk thresholds, using site specific examples.		
TR-1011731 Proceedings of the 2004 International Decommissioning Workshop at Lyon	Electric Power Research Institute	Over 70 representatives of the international nuclear power community attended representing utilities, major decommissioning service organizations and technical equipment suppliers. Presentations addressed strategic issues and aspects of relevant technologies, allowing an assessment to be made of their applicability within the international nuclear community.	2005	Topical Report available through http://www.epri.com
TR-1011732 Proceedings of the 2004 Decommissioning Workshop LTP Workshop at Connecticut Yankee	Electric Power Research Institute	This workshop focused on specific aspects of license termination activities and final site release as they relate to decommissioning. The information presented will update utilities on developments and experience related to license termination and final site release activities. This information can play a significant role in controlling	2005	Topical Report available through http://www.epri.com

		costs in the final stages of a decommissioning project.		
Decommissioning Lessons Learned at Fuel Cycle Facilities	Culberson, D.	This presentation discusses examples of lessons learned, as well as issues of importance to the fuel cycle community.	2005	Available via NRC's ADAMS system- Accession Number ML060470082